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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/663,733	09/17/2003	Takayuki Hokao	2018-u	2657
23117	7590 03/25/2005		EXAMINER	
NIXON & VANDERHYE, PC			GORMAN, DARREN W	
1100 N GLEBE ROAD 8TH FLOOR			ART UNIT	PAPER NUMBER
ARLINGTON, VA 22201-4714			3752	

DATE MAILED: 03/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/663,733	HOKAO, TAKAYUKI					
Office Action Summary	Examiner	Art Unit					
	Darren W Gorman	3752					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on							
2a) This action is FINAL . 2b) ☐ This	action is non-final.						
3) Since this application is in condition for allowan							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-9 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) 1-9 is/are rejected.	•						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	election requirement						
of Claim(s) are subject to restriction and/or	cicotion roquiroment.						
Application Papers							
9)☐ The specification is objected to by the Examine							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
The bath of declaration is objected to by the Ex	ammer, Note the attached Office	Action of form F 10-132.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 09/17/2003.	5) Notice of Informal P. 6) Other: See Continue	atent Application (PTO-152)					

Continuation of Attachment(s) 6). Other: Figure 1 of Yamaguchi et al. (marked-up).

DETAILED ACTION

Information Disclosure Statement

1. The IDS filed on September 17, 2003 is hereby acknowledged and has been placed of record. Please find attached a signed and initialed copy of the PTO 1449.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamaguchi et al.,
 Patent Application Publication No. US 2001/0040194 A1.

Yamaguchi et al. shows essentially the same fuel injection device structure as recited in claims 1-9 (see Figures 1 and 2), including: a valve body (29) having an injection hole and a valve seat (29a), the valve seat being inclined with respect to the axis of the fuel injection device; a cylindrical valve member (26) in which a fuel passage (26f) is formed, the valve member including a contacting portion forming a sealing portion (26c) together with the valve seat; guiding means (29d) formed on the inner surface of the valve body and an outer surface of the valve member; electromagnetic driving means including a coil (31), a movable core (25) disposed on an end of the valve member opposite from the contacting portion, and a fixed core (22); and a holder (14) having an inner surface (14d) with which an outer surface (25a) of the

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movable core can slide in contact. Further, as shown in Figure 1 (see marked-up copy of Figure 1, provided with this Office Action) the fuel injection device of Yamaguchi is formed so that arbitrary virtual perpendicular lines, which cross the sealing portion and are perpendicular to the inner peripheral surface of the valve body providing the valve seat, intersect with each other at an intersecting point, which is positioned between first and second ends of the guiding means. The distances and relative dimensions as recited in claims 5, 6, and 8 are inherently the same as those shown in the prior art Figure 1 of the Yamaguchi et al. U.S. publication.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US Patent to Kubach et al. is cited as of interest.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Darren W Gorman whose telephone number is 571-272-4901. The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on 571-272-4901. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Darren W Gorman

Examiner

Art Unit 3752

DWG

March 11, 2005

David A. Scher**bel** Supervis**ory** Patent Examiner

Group 3700